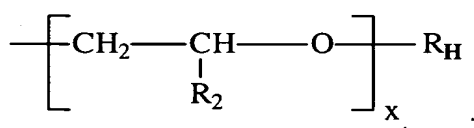


wherein each R is selected from the group consisting of R₂, R_C, and



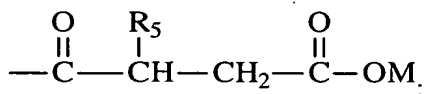
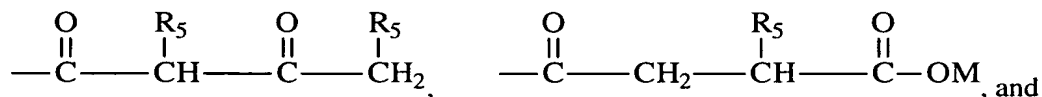
wherein:

- each R₂ is independently selected from the group consisting of H and C₁-C₄ alkyl;

- T0402
- each R_C is $\text{---}(\text{CH}_2)_y\text{---}\overset{\text{O}}{\parallel}\text{C}\text{---}\text{OZ}$;

wherein each Z is independently selected from the group consisting of M, R₂, R_C, and R_H;

- each R_H is independently selected from the group consisting of C₅-C₂₀ alkyl, C₅-C₇ cycloalkyl, C₇-C₂₀ alkylaryl, C₇-C₂₀ arylalkyl, substituted alkyl, hydroxyalkyl, C₁-C₂₀ alkoxy-2-hydroxyalkyl, C₇-C₂₀ alkylaryloxy-2-hydroxyalkyl, (R₄)₂N-alkyl, (R₄)₂N-2-hydroxyalkyl, (R₄)₃N-alkyl, (R₄)₃N-2-hydroxyalkyl, C₆-C₁₂ aryloxy-2-hydroxyalkyl,



- each R₄ is independently selected from the group consisting of H, C₁-C₂₀ alkyl, C₅-C₇ cycloalkyl, C₇-C₂₀ alkylaryl, C₇-C₂₀ arylalkyl, aminoalkyl, alkylaminoalkyl, dialkylaminoalkyl, piperidinoalkyl, morpholinoalkyl, cycloalkylaminoalkyl and hydroxyalkyl;
- each R₅ is independently selected from the group consisting of H, C₁-C₂₀ alkyl, C₅-C₇ cycloalkyl, C₇-C₂₀ alkylaryl, C₇-C₂₀ arylalkyl, substituted alkyl, hydroxyalkyl, (R₄)₂N-alkyl, and (R₄)₃N-alkyl;

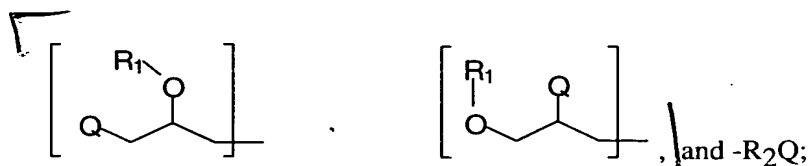
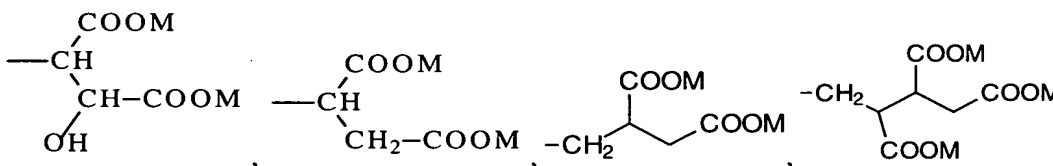
wherein:

M is a suitable cation selected from the group consisting of Na, K, 1/2Ca, and 1/2Mg;

each y is from 1 to 5; and

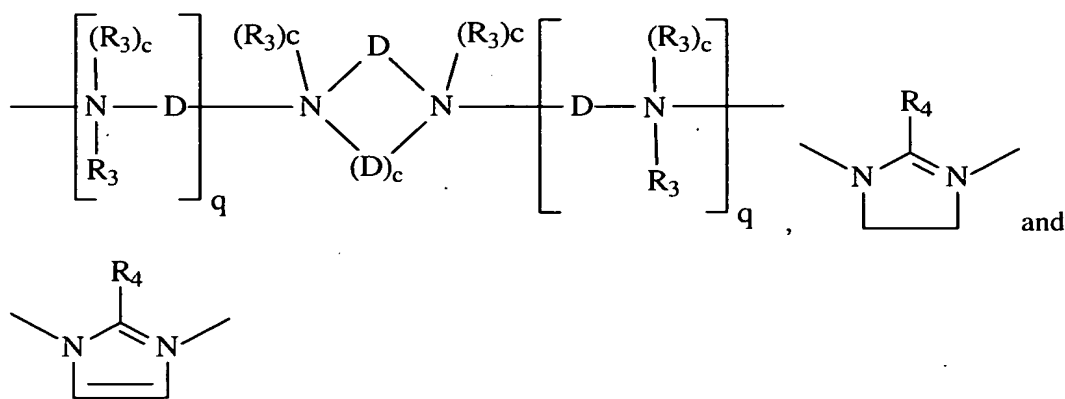
- the Degree of Substitution for group R_H is between 0.0005 and 0.1;
- the Degree of Substitution for group R_C wherein Z is H or M is between 0.2 and 2.0;
- if any R_H bears a positive charge, it is balanced by a suitable anion; and
- two R₄'s on the same nitrogen can together form a ring structure selected from the group consisting of piperidine and morpholine.

wherein;

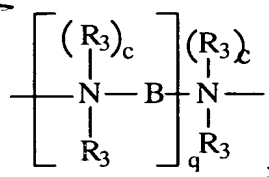
$$-(\text{CH}_2)_h\text{COOM}, -(\text{CH}_2)_h\text{SO}_3\text{M}, \text{CH}_2\text{CH}(\text{OH})\text{SO}_3\text{M}, -(\text{CH}_2)_h\text{OSO}_3\text{M},$$


-wherein W comprises at least one cyclic constituent selected from the group consisting of:

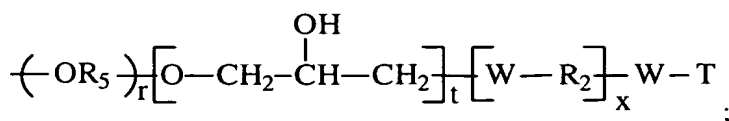
b



in addition to the at least one cyclic constituent, W may also comprise an aliphatic or substituted aliphatic moiety of the general structure;

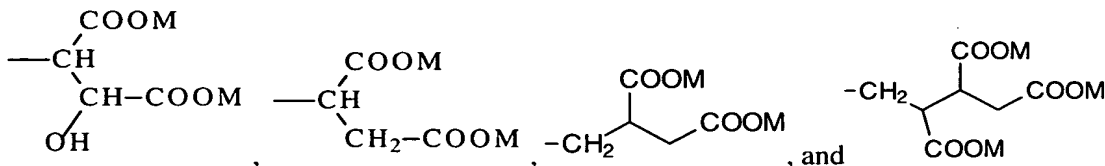


- each B is independently C₁-C₁₂ alkylene, C₁-C₁₂ substituted alkylene, C₃-C₁₂ alkenylene, C₈-C₁₂ dialkylarylene, C₈-C₁₂ dialkylarylenediyl, and -(R₅O)_nR₅-;
 - each D is independently C₂-C₆ alkylene;
 - each Q is independently selected from the group consisting of hydroxy, C₁-C₁₈ alkoxy, C₂-C₁₈ hydroxyalkoxy, amino, C₁-C₁₈ alkylamino, dialkylamino, trialkylamino groups, heterocyclic monoamino groups and diamino groups;
 - each R₁ is independently selected from the group consisting of H, C₁-C₈ alkyl and C₁-C₈ hydroxyalkyl;
 - each R₂ is independently selected from the group consisting of C₁-C₁₂ alkylene, C₁-C₁₂ alkenylene, -CH₂-CH(OR₁)-CH₂, C₈-C₁₂ alkarylene, C₄-C₁₂ dihydroxyalkylene, poly(C₂-C₄ alkyleneoxy)alkylene, H₂CH(OH)CH₂OR₂OCH₂CH(OH)CH₂-, and C₃-C₁₂ hydrocarbyl moieties;
- provided that when R₂ is a C₃-C₁₂ hydrocarbyl moiety the hydrocarbyl moiety can comprise from about 2 to about 4 branching moieties of the general structure:



- each R₃ is independently selected from the group consisting of H, O, R₂, C₁-C₂₀ hydroxyalkyl, C₁-C₂₀ alkyl, substituted alkyl, C₆-C₁₁ aryl, substituted aryl, C₇-C₁₁ alkylaryl, C₁-C₂₀ aminoalkyl,

$-(CH_2)_hCOOM$, $-(CH_2)_hSO_3M$, $CH_2CH(OH)SO_3M$, $-(CH_2)_hOSO_3M$,



-each R_4 is independently selected from the group consisting of H, C_1 - C_{22} alkyl, C_1 - C_{22} hydroxyalkyl, aryl and C_7 - C_{22} alkylaryl;

-each R_5 is independently selected from the group consisting of C_2 - C_8 alkylene, C_2 - C_8 alkyl substituted alkylene; and

A is a compatible monovalent or di or polyvalent anion;

M is a compatible cation;

b = number necessary to balance the charge;

each x is independently from 3 to 1000;

each c is independently 0 or 1;

each h is independently from 1 to 8;

each q is independently from 0 to 6;

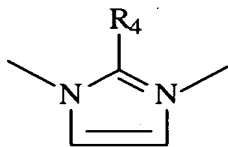
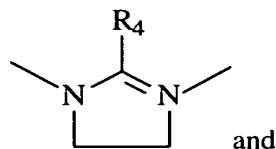
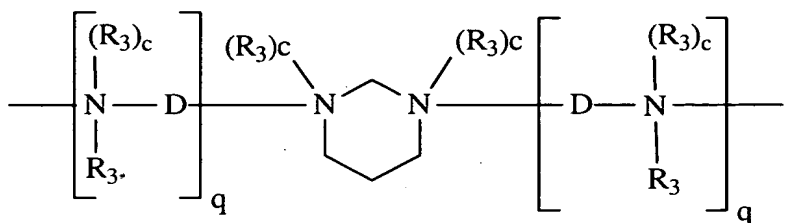
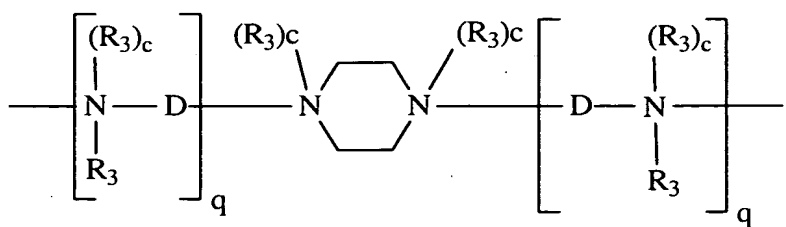
each n is independently from 1 to 20;

each r is independently from 0 to 20; and

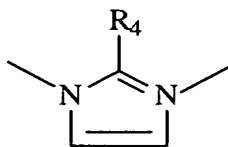
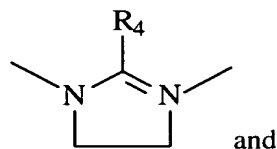
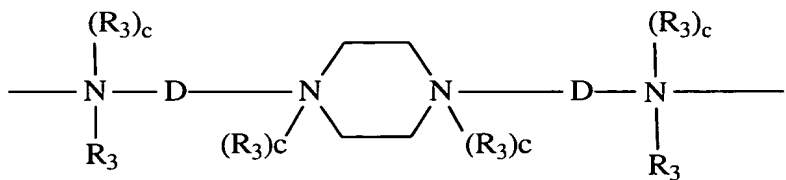
each t is independently from 0 to 1.

4. The detergent composition of claim 1, wherein the cyclic amine based polymers, oligomers or copolymers are adducts selected from the group consisting of piperazine, piperadine, epichlorohydrin, epichlorohydrin benzyl quat, epichlorohydrin methyl quat, morpholine and mixtures thereof.

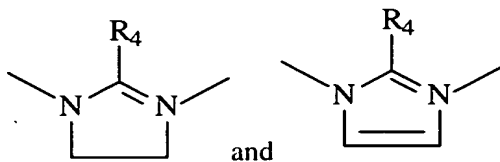
5. The detergent composition of claim 3, wherein each R_1 is H and at least one W is selected from the group consisting of:



6. The detergent composition of claim 13, wherein each R_1 is H and at least one W is selected from the group consisting of:



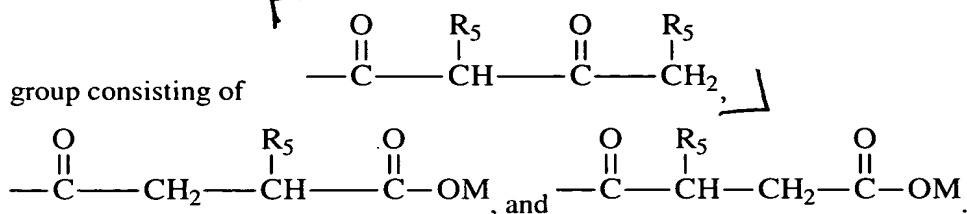
7. The detergent composition of claim 13, wherein each R_1 is H and at least one W is selected from the group consisting of:



8. The detergent composition of claim 12, wherein each R_H is independently selected from the group consisting of C₅-C₂₀ alkyl, C₅-C₇ cycloalkyl, C₇-C₂₀ alkylaryl, C₇-C₂₀ arylalkyl, substituted alkyl, hydroxyalkyl, C₁-C₂₀ alkoxy-2-hydroxyalkyl, C₇-C₂₀ alkylaryloxy-2-hydroxyalkyl, (R₄)₂N-

alkyl, (R₄)₂N-2-hydroxyalkyl, (R₄)₃N-alkyl, (R₄)₃N-2-hydroxyalkyl, and C₆-C₁₂ aryloxy-2-hydroxyalkyl.

9.19. The detergent composition of claim 12², wherein each R_H is independently selected from the



10.20. The detergent composition of claim 12², wherein the cellulosic based polymer or oligomer has an average molecular weight of from 5,000 to 2,000,000.

15.21. A laundry additive composition comprising:

- a) from 1% to 80% by weight of water; and
- b) from 0.01% to 5.0% by weight of a mixture of cyclic amine based polymers, oligomers or copolymers and hydrophobically modified cellulosic based polymers or oligomers.

16.22. The laundry additive composition of claim 16¹⁵, wherein the composition further comprises a pH adjuster and one or more fabric softening components.

11.23. The detergent composition of claim 11¹, wherein the composition further comprises a deterative enzyme and an enzyme stabilization system.

12.24. The detergent composition of claim 11¹, wherein the composition further comprises an inorganic peroxygen bleaching compound, which is selected from the group consisting of alkali metal salts of perborate, percarbonate and mixtures thereof, and a bleach activator, which is nonanoyloxybenzene sulfonate.

13.25. The detergent composition of claim 11¹, wherein the composition further comprises a cellulase enzyme.

14.26. The detergent composition of claim 24¹³, wherein the composition further comprises a cellulase enzyme.